

Benbrook Dam and Benbrook Lake

OWNER

The U.S. Government. Operated by the U.S. Army Corps of Engineers, Fort Worth District.

ENGINEER (Design)

U.S. Army Corps of Engineers.

LOCATION

On Clear Fork Trinity River in Tarrant County, 10 miles southwest of Fort Worth.

DRAINAGE AREA

429 square miles.

DAM

Type Earthfill
Length 9,130 ft including the spillway
Maximum height 130 ft
Top width 20 ft

SPILLWAY

Type Ogee
Crest elevation 724.0 ft above msl
Notch in center (100 ft) 710.0 ft above msl
Length 500 ft including the notch
Control None

OUTLET WORKS

Type 1 conduit
Size 13 ft diameter
Inlet 2 openings, each 6.5 by 13 ft
Control 2 broome-type gates
Invert elevation 622.0 ft above msl

LOW FLOW OUTLETS

Type 2 steel pipes, each 30-inch diameter
Control 2 slide gates
Invert elevation 656.0 ft above msl

AUTHORIZATION

Federal: River and Harbor Act, March 2, 1945, modified by Public Law 782.
State: None. City of Fort Worth proposes to purchase storage rights and apply for water use permit.

RESERVOIR DATA

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	747.0	—	—
Maximum design water surface	741.0	410,000	10,300
Emergency spillway crest	724.0	258,600	7,630
Notch crest of spillway	710.0	164,800	5,820
Top of conservation storage space	694.0	88,250	3,770
Invert of lowest intake	622.0	12	7
Streambed	617.0	—	—
Sediment reserve below	694.0	15,750	—
Usable conservation storage space	—	72,500	—

GENERAL

Construction started May 27, 1947
Dam completed December 1950
Impoundment of water began September 29, 1952
General contractor List & Clark Construction Company
Estimated project cost \$12,000,000

